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JAN 22 2004

JANUARY 22, 2004

PTAS  
PIONEER HI-BRED INTERNATIONAL, INC.  
JANICE L. DOAVER  
7100 NW 62ND AVENUE, P.O. BOX 1000  
CORPORATE INTELLECTUAL PROPERTY  
JOHNSTON, IA 50131-1000UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 01/22/2004

REEL/FRAME: 014276/0714  
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

## ASSIGNOR:

DHUGGA, KANWARPAL S.

DOC DATE: 01/22/2004

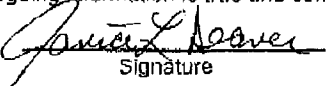
## ASSIGNEE:

PIONEER HI-BRED INTERNATIONAL,  
INC.  
800 CAPITAL SQUARE  
400 LOCUST STREET  
DES MOINES, IOWA 50309SERIAL NUMBER: 10713836  
PATENT NUMBER:FILING DATE:  
ISSUE DATE:

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KIMBERLY WHITE, EXAMINER  
ASSIGNMENT DIVISION  
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01/22/2004

Form PTO-1595 (Rev. 10/02) OMB No. 0651-0027 (exp. 6/30/2005)		RECORDATION FORM COVER SHEET PATENTS ONLY		U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office	
Tab settings: [Icons]					
To the Honorable Commissioner of Patents and Trademarks: Please Record the attached original documents or copy thereof.					
1. Name of conveying party(ies): Kanwarpal S. Dhugga			2. Name and address of receiving party(ies) Name: Pioneer Hi-Bred International, Inc. Internal Address: _____ Street Address: 800 Capital Square 400 Locust Street City: Des Moines State: IA Zip: 50309 Additional Name(s) & address(es) attached? <input type="checkbox"/> Yes <input type="checkbox"/> No		
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____ Execution Date: 01/22/04					
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: _____ A. Patent Application No.(s) 10/713,836 B. Patent No.(s) Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
5. Name and address of party to whom correspondence concerning this document should be mailed: Name: Janice L. Deaver Internal Address: Pioneer Hi-Bred International, Inc. Corporate Intellectual Property Street Address: 7100 NW 62 <sup>nd</sup> Avenue P.O. Box 1000 City: Johnston State: IA Zip: 50131-1000			6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41) ..... \$ 40.00 <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account 8. Deposit account number: 16-1852 (Attach duplicate copy of this page if paying by deposit account)		
DO NOT USE THIS SPACE					
9. Statement and signature. <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i> Janice L. Deaver Name of Person Signing  Signature January 22, 2004 Date Total number of pages including cover sheet, attachments, and documents: 5					

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
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CH \$40.00 161852 10713836

## ASSIGNMENT - WORLDWIDE

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and in fulfillment of a pre-existing obligation of assignment, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, as indicated below, unto

PIONEER HI-BRED INTERNATIONAL, INC.  
800 Capital Square  
400 Locust Street  
Des Moines, Iowa 50309

its successors and assigns, the entire right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries in and to the invention in **"GENES FOR GALACTOMANNAN PRODUCTION IN PLANTS AND METHODS OF USE"**

as set forth in this United States Patent Application

- ☐ executed concurrently herewith
- ☐ executed on
- ☒ Serial No. 10/713,836 filed November 14, 2003

said application for United States Letters Patent, including all divisional, renewal, substitute, continuation and Convention applications based in whole or in part upon said inventions or upon said applications, and any and all Letters Patent and reissues and extensions of Letters Patent granted for said inventions or upon said applications and every priority right that is or may be predicated upon or arise from said inventions, said applications, and said Letters Patent; said Assignee being hereby authorized to file patent applications in any or all countries on any or all said inventions in the name of the undersigned or in the name of said Assignee or otherwise as said Assignee may deem advisable, under the International Convention or otherwise; the Commissioner of Patents and Trademarks of the United States of America being hereby authorized to issue or transfer all said Letters Patent to said Assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or other right theretofore given, and that the undersigned will do all acts reasonably serving to ensure that the said inventions, patent applications and Letters Patent shall be held and enjoyed by said Assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to said Assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, and lawful affidavits in form and substance which may be requested by said Assignee, to

furnish said Assignee with all facts relating to said inventions or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may be of said inventions, and to testify in any proceedings relating to said inventions, patent applications, Letters Patent.

The undersigned hereby grant an authorized representative of Assignee the power to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

NAME AND SIGNATURE OF INVENTOR		
Name: <b>Kanwarpal S. Dhugga</b>	Signature: <i>Kanwarpal S. Dhugga</i>	Date: 22 Jan 2004
NAME AND SIGNATURE OF WITNESSES		
Name: <i>Toni K. Farris</i>	Signature: <i>Toni K. Farris</i>	Date: 01/22/04
Name: <i>Janice L. Deaver</i>	Signature: <i>Janice L. Deaver</i>	Date: 1/22/04

Attorney Docket No. 1520